

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (canceled)

2 (previously presented). The mixture of claim 33 comprising at least ten chemical compounds.

3 (previously presented). The mixture of claim 33 comprising at least fifteen chemical compounds.

4 (previously presented). The mixture of claim 33 wherein said chemical compounds are within 20 mole percent of equimolarity in said mixture.

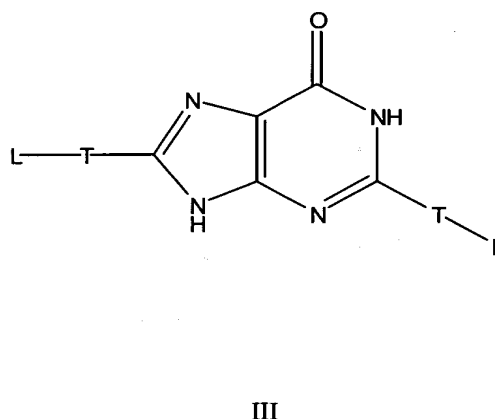
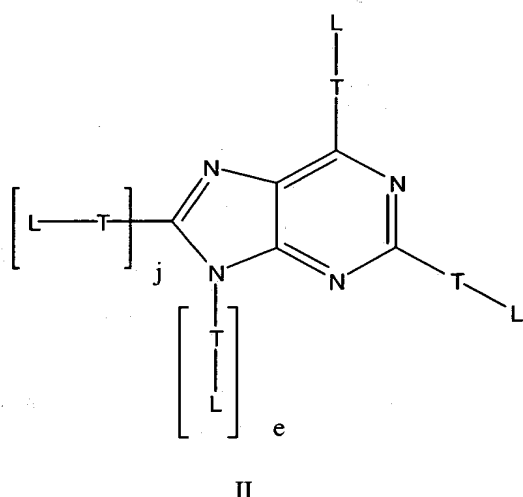
5 (currently amended). The mixture of claim 33 wherein said ~~heterocyclic scaffold bears~~
mixture comprises compounds of structure II that bear at least three functionalizable atoms.

6 (canceled)

7 (previously presented). The mixture of claim 33 wherein at least one of the functionalizable atoms on said heterocyclic scaffold is nitrogen, oxygen, or sulfur.

8-32 (canceled)

33 (previously presented). A mixture comprising a set of at least six chemical compounds having a common heterocyclic scaffold bearing functionalizable atoms, wherein said set of compounds is represented by one of structures II or III:



each tether moiety T is -NH(R¹)NH-, -NH(R¹)O-, -NHR²NH-, -NHR²SO₂NH-, -NHR¹-, -N(R⁴)₂-, -N=N-, O, S, Se, -P(=O)(O)₂-, NH, OR², OR³, malonato, pyrrolidinyl, piperidinyl, piperazinyl, morpholino, imidazolyl, pyrrolyl, pyrazolyl, indolyl, 1H-indolyl, α-carbolinyl, carbazolyl, phenothiazinyl, phenoxazinyl, tetrazolyl, or triazolyl;

R¹ is alkylene; R² is aryl; R³ is H or C₁-C₁₀ alkyl; R⁴ is alkyleneoxy; and

each chemical substituent L is, independently, C₁-C₁₀ alkyl, substituted C₁-C₁₀ alkyl, C₂-C₁₀ alkenyl, substituted C₂-C₁₀ alkenyl, C₂-C₁₀ alkynyl, substituted C₂-C₁₀ alkynyl, C₄-C₇ carbocyclic alkyl, substituted C₄-C₇ carbocyclic alkyl, C₄-C₁₀ alkenyl carbocyclic, substituted C₄-C₁₀ alkenyl carbocyclic, C₄-C₁₀ alkynyl carbocyclic, substituted C₄-C₁₀ alkynyl carbocyclic, C₆-C₁₄ aryl, substituted C₆-C₁₄ aryl, heteroaryl, substituted heteroaryl, a nitrogen, oxygen or sulfur containing heterocycle, a substituted nitrogen, oxygen or sulfur containing heterocycle, a mixed heterocycle, or a substituted mixed heterocycle; wherein each of the substituent groups is selected from a group consisting of alkyl, alkenyl, alkynyl, aryl, hydroxyl, alkoxy, benzyl, nitro, thiol, thioalkyl, thioalkoxy and halo; or L is, independently, phthalimido, an ether having 2 to 10 carbon atoms and 1 to 4 oxygen or sulfur atoms, hydrogen, halogen, hydroxyl, thiol, keto, carboxyl, NR¹R², CONR¹, amidine, guanidine, glutamyl, nitro, nitrate, nitrile, trifluoromethyl, trifluoromethoxy, NH-alkyl, N-dialkyl, O-aralkyl, S-aralkyl, NH-aralkyl, azido, hydrazino, hydroxylamino, sulfoxide, sulfone, sulfide, disulfide, silyl, a nucleosidic base, an amino acid side chain, or a carbohydrate; and

each j and e is 0 or 1, with the sum of j and e equal to 1.

34-36 (canceled)